Diameter	Dimensions			
	Minimum		Maximum	
	mm	in.	mm	in.
Major .	5.5	0.22	8.0	0.31
Minor .	3.0	0.12	5.0	0.19

(d) *Conductor marking.* The insulated conductors of a finished wire shall be marked in accordance with the requirements specified in ANSI/ICEA S–89–648–1993, paragraph 3.1.4.

(e) *Electrical requirements.* (1) *Conductor resistance.* The direct current (dc) resistance of each conductor in a completed CCSR aerial service wire shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 7.1.2.

(2) *Wet mutual capacitance.* The wet mutual capacitance of the completed CCSR aerial service wire shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 7.1.3.

(3) *Wet attenuation.* The wet attenuation of the completed CCSR aerial service wire shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 7.1.4.

(4) *Wet insulation resistance.* The wet insulation resistance of the completed CCSR aerial service wire shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 7.1.5.

(5) *Dielectric strength.* (i) The wet dielectric strength between conductors and between each conductor of the completed CCSR aerial service wire and the surrounding water shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 7.1.6.

(ii) The dry dielectric strength between conductors of the completed CCSR aerial service wire shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 7.1.7.

(6) *Fusing coordination.* The completed CCSR aerial service wire shall comply with the fusing coordination requirement specified in ANSI/ICEA S–89–648–1993, paragraph 7.1.8.

(7) *Insulation imperfections.* Each length of completed CCSR aerial service wire shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 7.1.9.

(f) *Mechanical requirements.* (1) *Impact test.* (i) All CCSR aerial service wires manufactured in accordance with this section shall comply with the unaged impact test specified in ANSI/ICEA S–89–648–1993, paragraph 8.1.2.

(ii) All CCSR aerial service wires manufactured in accordance with this section shall comply with the aged impact test specified in ANSI/ICEA S–89–648–1993, paragraph 8.1.3.

(2) *Abrasion resistance test.* All CCSR aerial service wires manufactured in accordance with this section shall comply with the abrasion resistance test specified in ANSI/ICEA S–89–648–1993, paragraph 8.1.4.

(3) *Static load test.* All CCSR aerial service wires manufactured in accordance with this section shall comply with the static load test specified in ANSI/ICEA S–89–648–1993, paragraph 8.1.5.

(4) *Plasticizer compatibility test.* All CCSR aerial service wires manufactured in accordance with this section shall comply with the plasticizer compatibility test specified in ANSI/ICEA S–89–648–1993, paragraph 8.1.8.

(g) *Environmental requirements.* (1) *Cold temperature handling test.* (i) All CCSR aerial service wires manufactured in accordance with this section shall comply with the unaged cold temperature handling test specified in ANSI/ICEA S–89–648–1993, paragraph 8.2.1.

(ii) All CCSR aerial service wires manufactured in accordance with this section shall comply with the aged cold temperature handling test specified in ANSI/ICEA S–89–648–1993, paragraph 8.2.2.

(2) *Light absorption test.* All CCSR aerial service wires manufactured in accordance with this section shall comply with the light absorption test specified in ANSI/ICEA S–89–648–1993, paragraph 8.2.3.

(3) *Low temperature separation test.* All CCSR aerial service wires manufactured in accordance with this section shall comply with the low temperature separation test specified in ANSI/ICEA S–89–648–1993, paragraph 8.2.4.

(4) *Flammability test.* All CCSR aerial service wires manufactured in accordance with this section shall comply with the flammability test specified in ANSI/ICEA S–89–648–1993, paragraph 8.3.

(5) *Wire listing.* All CCSR aerial service wires manufactured in accordance with this section shall comply with the listing requirements specified in ANSI/ICEA S–89–648–1993, paragraph 8.4.

(h) *Identification marker.* Each length of CCSR aerial service wire shall be identified in accordance with ANSI/ICEA S–89–648–1993, paragraph 9.1.4. When surface marking is employed, the color of the initial marking shall be either white or silver.

(i) *Length marking (optional).* (1) Sequentially numbered length marking of the completed CCSR aerial service wire may be used at the option of the manufacturer unless specified by the end user.

(2) When sequentially numbered length markings are used, the length markings shall be in accordance with ANSI/ICEA S–89–648–1993, paragraph 9.1.5. The color of the initial marking shall be either white or silver.

(j) *Durability of marking.* The durability of the marking of the CCSR aerial service wire shall comply with the requirements specified in ANSI/ICEA S–89–648–1993, paragraph 9.1.6.

§ 1755.703 Nonmetallic reinforced (NMR) aerial service wire.

(a) *Conductors.* (1) Each conductor shall comply with the requirements specified in ANSI/ICEA S–89–648–1993, paragraphs 2.2 and 2.2.1.

(2) Factory joints made in the conductors during the manufacturing process shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 2.2.2.

(b) *Conductor insulation.* (1) The raw materials used for the conductor insulation shall comply with the requirements specified in ANSI/ICEA S–89–648–1993, paragraphs 3.2 through 3.2.2.

(2) The finished conductor insulation shall comply with the requirements specified in ANSI/ICEA S–89–648–1993, paragraph 3.2.3.

(3) The dimensions of the insulated conductors shall comply with the requirements specified in ANSI/ICEA S–89–648–1993, paragraph 3.2.3.1.

(4) The colors of the insulation shall comply with the requirements specified in ANSI/ICEA S–89–648–1993, paragraph 3.2.3.2.

(5) A permissible overall performance level of faults in conductor insulation shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 3.2.4.6. The length count and number of faults shall be recorded. The information shall be retained for a period of 6 months and be available for review by RUS when requested.

(6) Repairs to the conductor insulation during manufacture are permissible. The method of repair shall be accepted by RUS prior to its use. The repaired insulation shall comply with the requirement specified in ANSI/ICEA S–89–648–1993, paragraph 3.2.3.3.

(7) All repaired sections of insulation shall be retested in the same manner as originally tested for compliance with paragraph (b)(5) of this section.

(8) The colored insulating material removed from or tested on the conductor, from a finished wire shall comply with the requirements specified in ANSI/ICEA S–89–648–1993, paragraphs 3.2.4 through 3.2.4.5.